

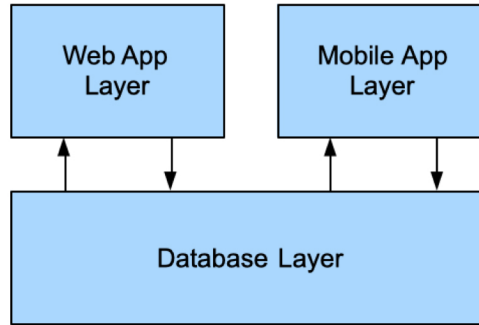
Executive Summary

Our team is developing a mobile app that helps alcoholic beverage collectors keep track of their inventory. The main purpose for Swift Scan is to enable collectors to easily scan and catalog their items from their mobile device. Common practice is to use an RFID reader to scan barcodes. Our app eliminates the need for this technology.

Background

The people we are trying to help are alcohol collectors/connoisseurs. Most collectors have no way to keep track of their items and lose track of what they have if using unmarked containers. Swift Scan solves this issue with an intuitive inventory system.

Architecture Design



MOBILE APP LAYER: The mobile app will contain 3 tabs: profile, scan, and saved. The profile tab will ensure that all user settings are saved and can be synced with the web app. The scan tab will allow users to scan products using the camera and view information about them. If they choose to save the product information, it will be stored in the saved tab. The saved tab lists every product save by the user. These products can be sorted by type of alcohol or any other category. The user can also make collections with products of their choice.

WEB APP LAYER: The web app will include a profile tab and saved tab with the same features as the mobile app. The information will be synced from the mobile app via the database system so that the user can access their products anywhere. When the web page is refreshed, a request will be sent to the database for the up-to-date information on the user.

DATABASE LAYER: The database system is the driving force of the project. When a user scans a product, the database will be queried for the barcode number. Information such as name, brand, price, ABV, type, country, and category will be returned the user. In addition, the database will store the information of all users and will be monitored by the maintenance team. To login, the user will enter their username and password which will be queried in the database to confirm their identity and all of their setting setting will be returned.

Features

- Scans barcodes of beverages and stores them in an inventory
- Users may manually add a beverage to their collection
- Users may conveniently add an image for each beverage
- The application stores 7 attributes for each beverage including the name, brand, location, type of alcohol, barcode, volume (fl oz), quantity, and alcohol percentage
- A clean list view displays the beverages to the user
- Beverages may be sorted by ascending or descending order
- Beverage information may be viewed and edited at ease
- A beverage may be easily deleted from the user's collection

